

LearnHub – Project Design Phase: Proposed Solution

Project Name: LearnHub

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1. Introduction

The Proposed Solution section details the technical and user-centric design of the LearnHub platform. It outlines how the solution addresses the identified user problems, describing the key features, system design, and approach to delivering the best learning experience.

2. Solution Overview

LearnHub is a web-based and mobile-accessible learning platform that connects students and independent educators. It enables content creation, course delivery, multilingual access, and personalized learning—all within a user-friendly interface.

3. Key Features

- User registration and login for students and educators
 - Educator dashboard to create and manage courses
 - Student dashboard to browse, enroll, and track progress
 - Multilingual support for course content
 - Recommendation engine for personalized learning paths
 - Mobile-friendly responsive design
 - Secure payment and course access system
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4. System Architecture (Overview)

The LearnHub platform uses a modular MVC architecture:

- **Frontend:** React.js or Vue.js for responsiveness
 - **Backend:** Node.js or Django REST API for handling logic and authentication
 - **Database:** MongoDB or PostgreSQL to store user data, courses, and progress
 - **Storage:** AWS S3 or Firebase Storage for video & document hosting
 - **Recommendation Engine:** Python-based logic integrated via backend API
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5. Implementation Approach

- Use agile development methodology with 2-week sprints
 - Begin with core MVP: authentication, course creation, and enrollment
 - Iterate to add multilingual and recommendation features
 - Conduct user testing and gather feedback after MVP release
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6. Success Metrics

- 100+ student signups within first month
 - At least 10 educators uploading courses
 - Positive feedback in UAT (User Acceptance Testing)
 - At least 75% course completion rate among enrolled students
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